

Sheet 1 of 17

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
2026-4230US1SERIAL NO.  
09/155,590**INFORMATION DISCLOSURE CITATION***(Use several sheets if necessary)*APPLICANT(S)  
Jeffrey Schlom et alFILING DATE  
September 30, 1998GROUP ART UNIT  
1643**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>HAC</i>	2,253,211	2/9/92	GB	—	—		
<i>HAC</i>	WO 89/06974	8/10/89	WO	—	—		

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)**

<i>HAC</i>	<i>HAC</i>	Rotzschke, O. et al, Isolation and analysis of naturally processed viral peptides as recognized by cytotoxic T cells, <u>Nature</u> 1990, 348:252-254.
<i>HAC</i>	<i>HAC</i>	Skipper, J. et al, Identification of Two Cytotoxic T Lymphocyte-recognized Epitopes in the Ras Protein, <u>The Journal of Experimental Medicine</u> , 177 (5), 1993, 1493-1498.

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	Abrams, S.I. et al, Mutant <i>ras</i> epitopes as targets for cancer vaccines, <u>Sem. Oncol.</u> 23, 118-134 (1996).
	Eishenlohr, L.C. et al, A transient transfection system for identifying biocynthesized proteins processed and presented to class I MHC restricted T lymphocytes, <u>J. Immunol. Meth.</u> , 1992, 154:131.

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AK		Peace, D.J. et al, T cell recognition of transforming proteins encoded by mutated <i>ras</i> proto-oncogenes, <u>J. Immunol.</u> , 146, 2059-2065, (1991).
AK		Takahashi, H.S. et al, A single amino acid interchange yields reciprocal CTL specificities for HIV-1 gp 160, <u>Science</u> , 1989, Vol. 246, 118-121.

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		Rock, K.L. et al, Analysis of the association of peptides of optimal length to class I molecules or the surface of cells, <u>Proc. Natl. Acad. Sci. USA</u> 1992, Vol. 89, 8918-8922.
		Mitsudomi, T. et al, P53 mutation in non small lung cancer cell line and their correlation with the presence of <i>ras</i> mutations and clinical features, <u>Oncogene</u> 1992, Vol. 7, No. 1, 171-180.

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		Kahn, S.M. et al, Rapid and sensitive nonradioactive detection of mutant K-ras genes via enriched PCR amplification, <u>Oncogene</u> , Vol. 6, No. 6, 1079-1083 (1991).
		Fenton, R.G. et al, Cytotoxic T-Cell Response and In Vivo Protection Against Tumor Cells Harboring Activated ras Proto-oncogenes, <u>Journal of the National Cancer Institute</u> , Vol. 85, No. 16, August 18, 1993.

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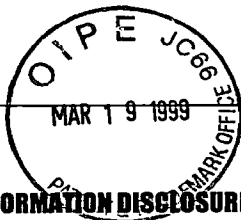
		Tsang, K.Y. et al, Generation of human cytotoxic T cells specific for human carcinoembryonic antigen epitopes from patients immunized with recombinant vaccinia-CEA vaccine, <u>J. Natl. Cancer Inst.</u> , Vol. 87, No. 13, July 1995, 982-990.
		Hamer, P.J. et al, Activated Val-12 ras p21 in cell culture fluids and mouse plasma, <u>Oncogene</u> , Vol. 6, No. 9, 1609-1615 (1991).

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HAC		Carter, G. et al, <i>Ras</i> mutations in patients following cytotoxic therapy for lymphoma, <i>Oncogene</i> , Vol. 5, No. 3, 1990, 411-416.
HAC		Fenton, R.G. et al, Induction of T-Cell Immunity Against <i>Ras</i> Oncoproteins by Soluble Protein or <i>Ras</i> -Expressing <i>Escherichia coli</i> , <i>Journal of the National Cancer Institute</i> (Bethesda), Vol. 87, No. 24, 1995, 1853-1861.

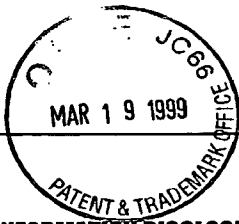
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HR		Capon, D. J. et al, Activation of Ki-ras 2 gene in human colon and lung carcinomas by two different point mutations, <u>Nature</u> , Vol. 304, No. 11, August 1983, 507-513.
HR		Bos, J.L., The ras gene family and human carcinogenesis, <u>Mutation Research</u> , 195 (1988), 255-271.

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HAR		Van Bleek, G. et al, Isolation of an endogenously processed immunodominant viral peptide from the class I H-2K molecule, <u>Nature</u> 1990, 348:213-216.
		Mitsudomi, T. et al, <i>Ras</i> gene mutation in non small lung cancer are associated with shortened survival irrespective of treatment intent, <u>Cancer Research</u> 1991, 51:4999-5002.

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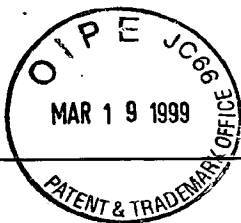
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

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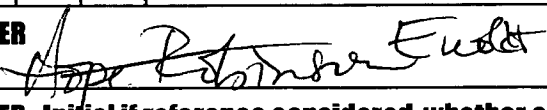
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		Bos, J.L., <i>ras</i> Oncogenes in Human Cancer: A Review, <u>Cancer Research</u> 49, 4682-4689 (1989).
		Fossum, B. et al, CD8+ T cells from a patient with colon carcinoma, specific for a mutant p21- <i>Ras</i> -derived peptide (GLY <sup>13</sup> >ASP), are cytotoxic towards a carcinoma-cell line harbouring the same mutation, <u>Cancer Immunol. Immunotherapy</u> 40, 165-162 (1995).

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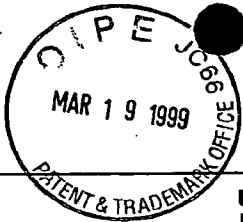
		Qin, H. et al, CD4+ T-cell immunity to mutated <i>ras</i> protein in pancreatic and colon cancer patients, <u>Cancer Research</u> 55, 2984-2987 (1995).
		Abrams, S.I. et al, Peptide-specific activation of cytolytic CD4+ T lymphocytes against tumor cells bearing mutated epitopes of K- <i>ras</i> p21, <u>Eur. J. Immunol.</u> 25, 2588-2597 (1995).

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HAR		Abrams, S.I. et al, Identification of overlapping epitopes in mutant <i>ras</i> oncogene peptides that activate CD4+ and CD8+ T cell responses, <i>Eur. Journal of Immunology</i> 26 (2) 1996, 435-443.
HAR		Gjertsen, M.K. et al, <i>Ex vivo ras</i> peptide vaccination in patients with advanced pancreatic cancer: results of a phase I/II study, <i>Int. J. Cancer</i> 65, 450-453 (1996).

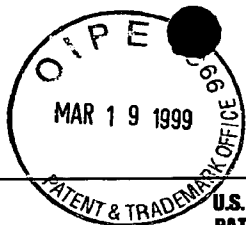
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HAC		Van Elsas, A. et al, Induction and characterization of cytotoxic T-lymphocytes recognizing a mutated p21 <i>Ras</i> peptided presented by HLA-A *0201, <u>Int. J. Cancer</u> 61, 389-396 (1995).
HAC		Kiaris, H. et al, Mutations of <i>ras</i> genes in human tumours (review), <u>Int. J. Oncol.</u> 7, 413-421 (1995).

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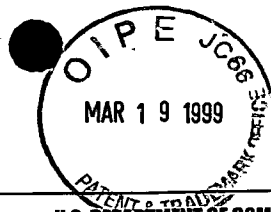
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HAR		Fossum, B. et al, Overlapping epitopes encompassing a point mutation (12 Gly > Arg) in p21
		<i>ras</i> can be recognized by HLA-DR, -DP and -DQ restricted T cells, <u>Eur. J. Immunol.</u> 23, 2687-2691 (1993).
HAR		Geddle-Dahl III et al, T-cell responses against products of oncogenes: generation and
		characterization of human T-cell clones specific for p21 <i>Ras</i> -derived synthetic peptides, <u>Human Immunol.</u> 33, 266-274 (1992).

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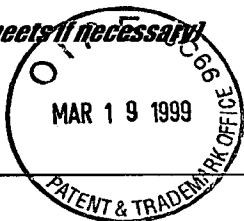
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HAR		Salter, R.D. et al, Impaired assembly and transport of HLA-A and B antigens in a mutant TxB hybrid, <u>EMBO J.</u> , 5, 943-949 (1986).
HAR		Jung, S. et al, Human T lymphocytes recognize a peptide of single point-mutated, oncogenic <i>ras</i> proteins, <u>J. Exp. Med.</u> , 163, 273-276 (1991).

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

KAC		Khleif, S.N. et al, Induction of T cell responses after vaccination with specific <i>Ras</i> mutant peptides in cancer patients, <u>Proceedings of the American Association for Cancer Research</u> , Vol. 37, March 1996, Abstract.
KAC		Tsang, K.Y. et al, Induction of Human Cytotoxic T Cell Lines Directed Against Point-Mutated p21 Ras-Derived Synthetic Peptides, <u>Vaccine Research</u> , Vol. 3, No. 4, p. 183-193, 1994.

EXAMINER <i>Karen A. Canella</i>	DATE CONSIDERED <i>3/21/00</i>
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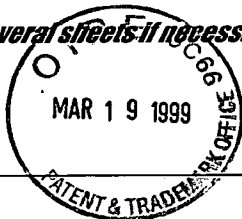
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All references considered except where lined through. /KAC

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 2026-4230US1	SERIAL NO. 09/155,590
<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>		APPLICANT(S) Jeffrey Schlom et al	
		FILING DATE September 30, 1996	GROUP ART UNIT 1643



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

HAR	Gaudernack, G., T cell responses against mutant <i>ras</i> , a basis for novel cancer vaccines
	<u>Immunotechnology</u> 2 (1996), pp. 3-9.
HAR	Carbone et al, Feasibility of immunization with individualized mutant <i>ras</i> and p53 peptides
	in patients with solid tumors, <u>Proc. ASCO</u> Vol. 14, p. 546 (6/14/95).
EXAMINER	DATE CONSIDERED 3/21/00 10/5/00

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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